

Figure 1A

(PRIOR ART)

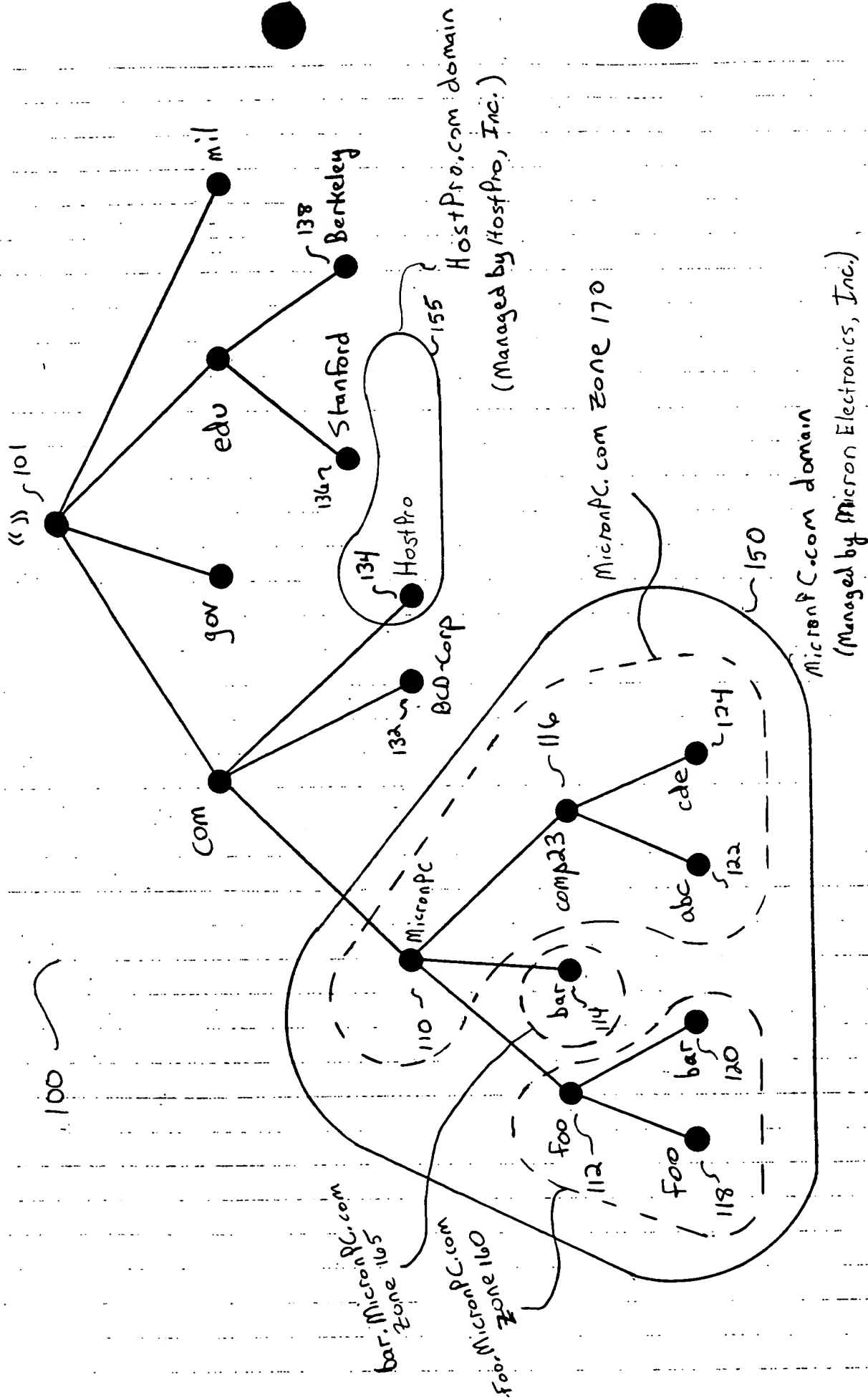


Figure 1B
(PRIOR ART)

Example Configuration Data File for the Primary Name Server of the foo.MicronPC.com Zone

primary	foo.MicronPC.com	db.foo.MicronPC
primary	stanford.edu	db.stanford
:		

Figure 2A

Example db.foo.MicronPC Zone Data File for the foo.MicronPC.com Zone

```
foo.MicronPC.com.  IN  SOA      ns1.HostPro.com.  postmaster.HostPro.com.  (
;;; information for slave name servers
                        1837      ;;; serial number for this version of the zone data file
                        1800      ;;; refresh after 30 minutes
                        900       ;;; retry after 15 minutes
                        86400     ;;; expire after 1 week
                        1800     ;;; minimum Time To Live (TTL) of 30 minutes
                        )
;;; name servers for the zone
                        IN      NS      ns1.HostPro.com.
                        IN      NS      bar
;;; mail server
                        IN      MX      5  mailserver.HostPro.com.
;;; addresses
@      IN      A      216.23.39.188
foo    IN      A      216.23.39.180
bar    IN      A      216.23.46.83
;;; aliases
smtp   IN      CNAME   @
www    IN      CNAME   @
ftp    IN      CNAME   foo.foo.MicronPC.com.
bigdaddy IN  CNAME   bar
```

Figure 2B

Example Partial Zone Data File for the MicronPC.com Zone

```
;;; delegation of subzone foo.MicronPC.com to authoritative name servers for the subzone
foo      86400  IN      NS      ns1.HostPro.com.
          86400  IN      NS      bar.foo.MicronPC.com.
bar.foo.MicronPC.com. 86400  IN      A      216.23.46.83
```

Figure 2C

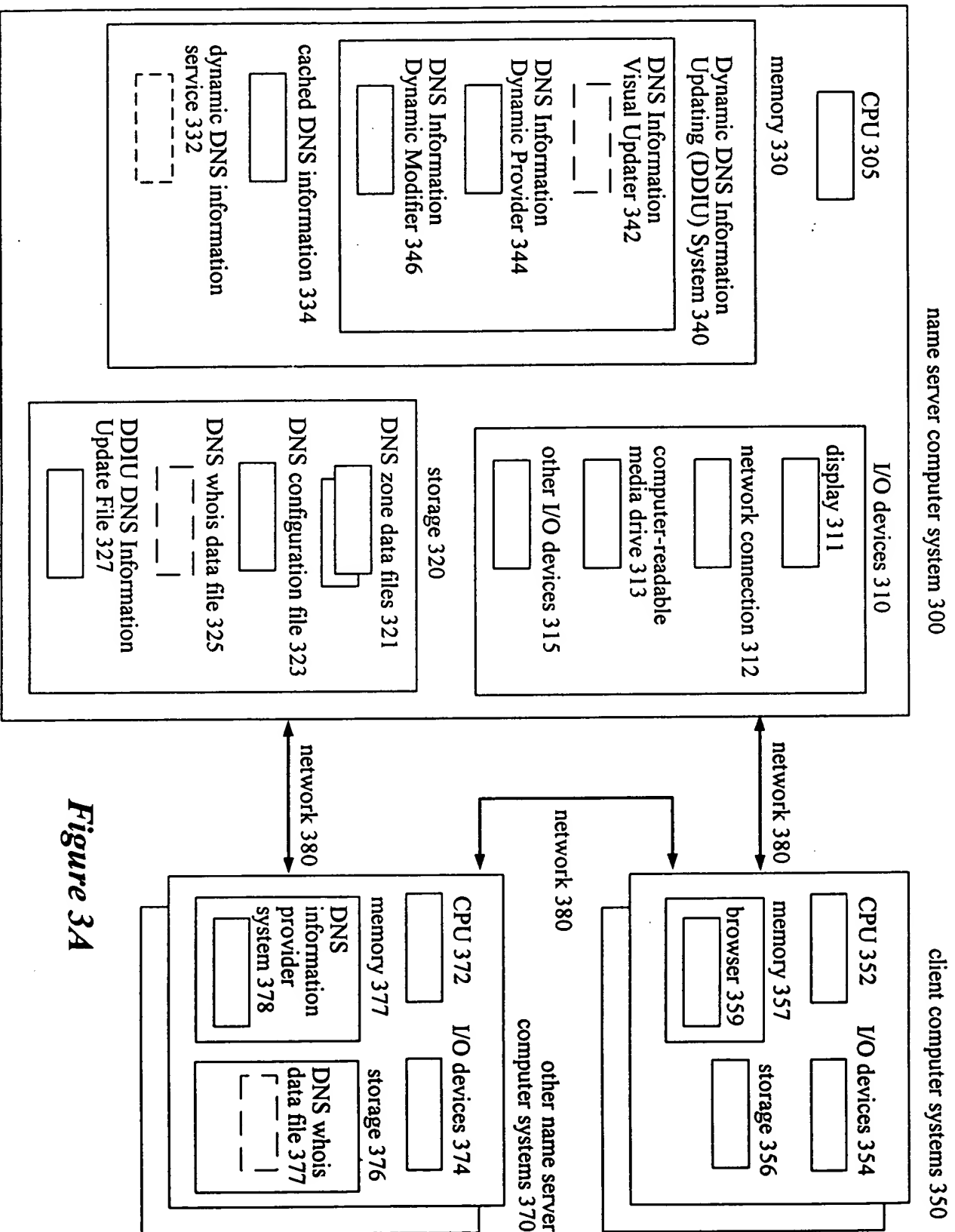


Figure 3A

Example DDIU Update File

	363	365
362	<path-1>/db.foo.MicronPC	modified
364	<path-2>/db.foo.MicronPC	modified
366	<path-3>/db.abcd	deleted
	⋮	
	⋮	

Figure 3B

[illegible]

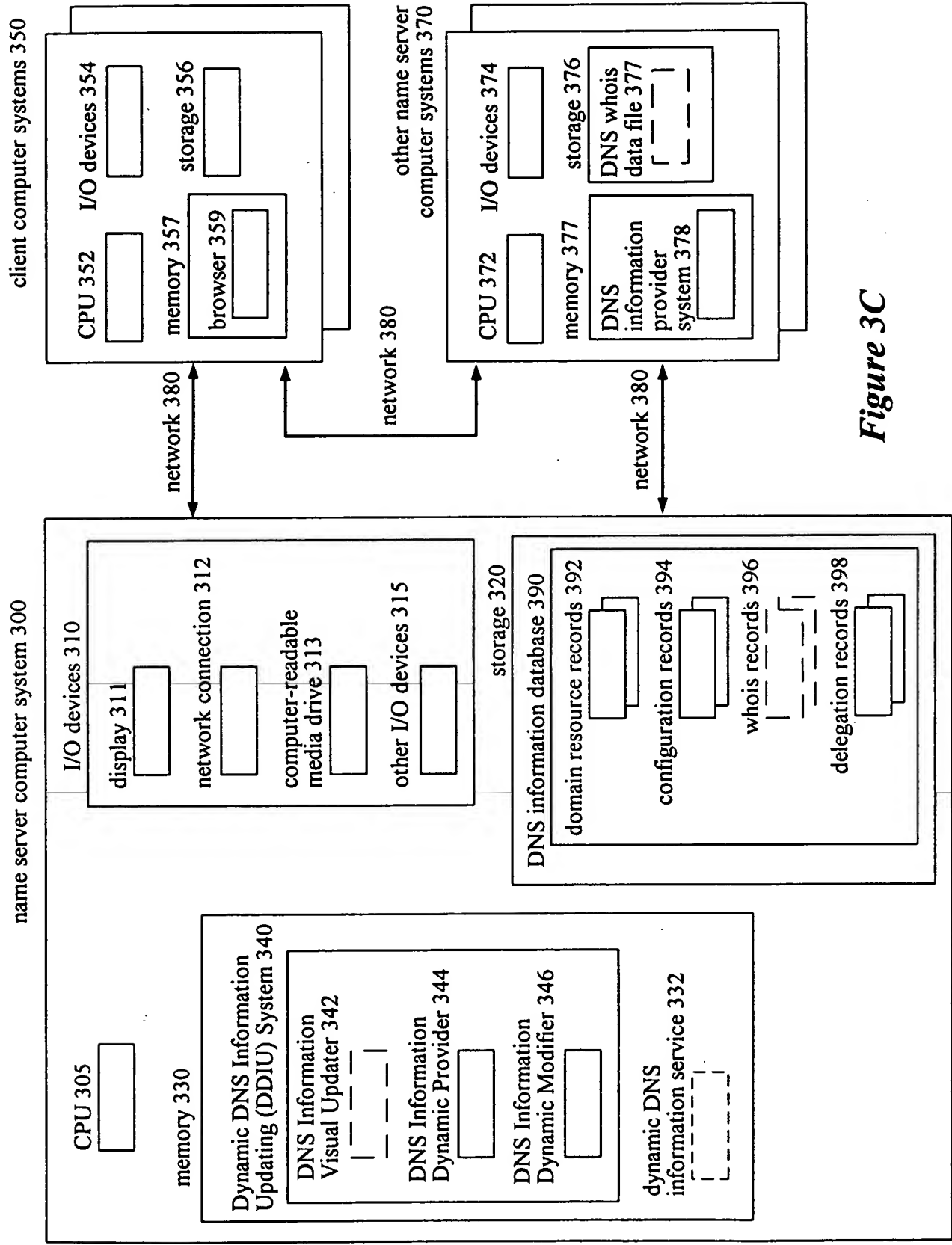


Figure 3C

Dynamically Modify
DNS Information
Routine 400

Fig. 4

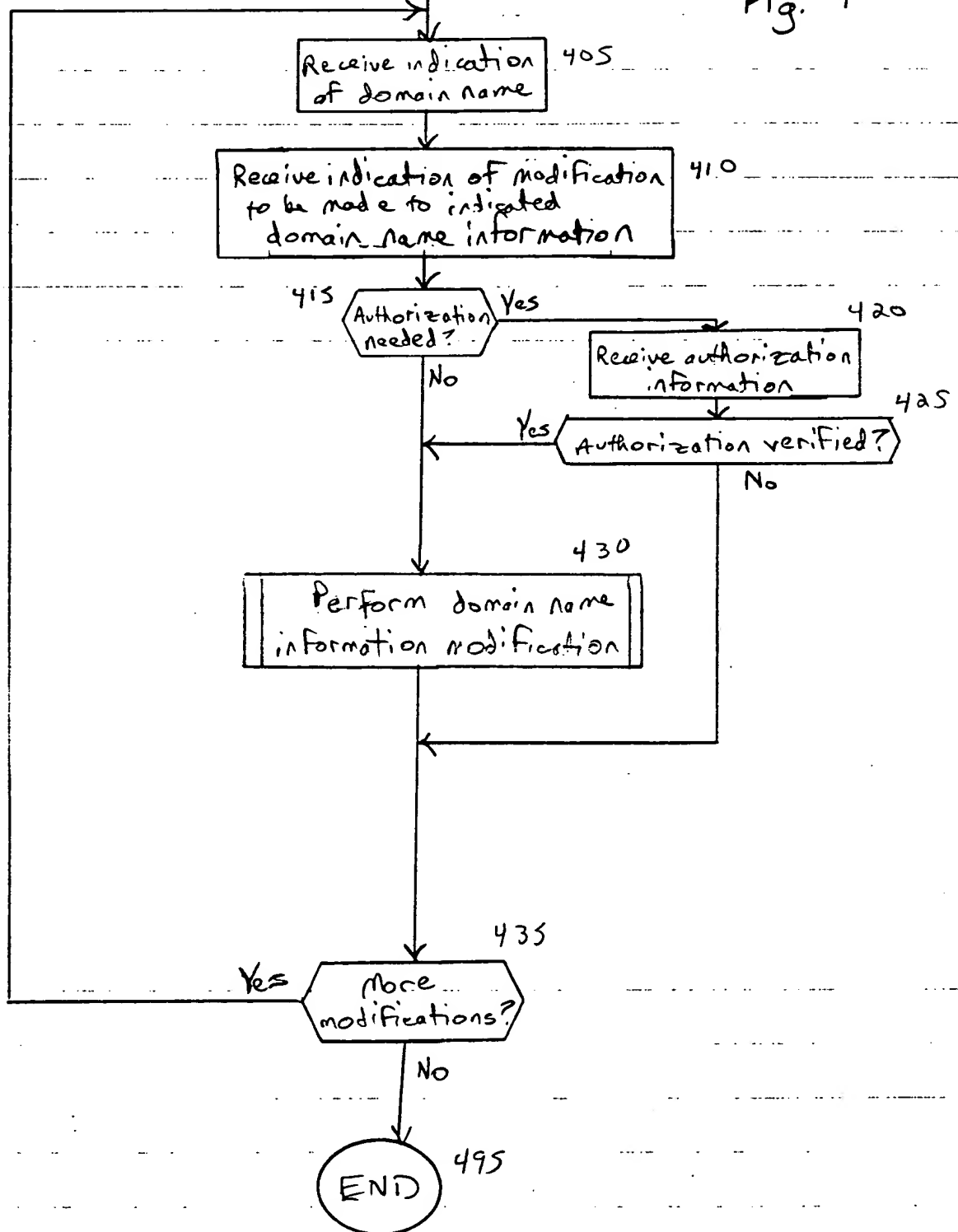
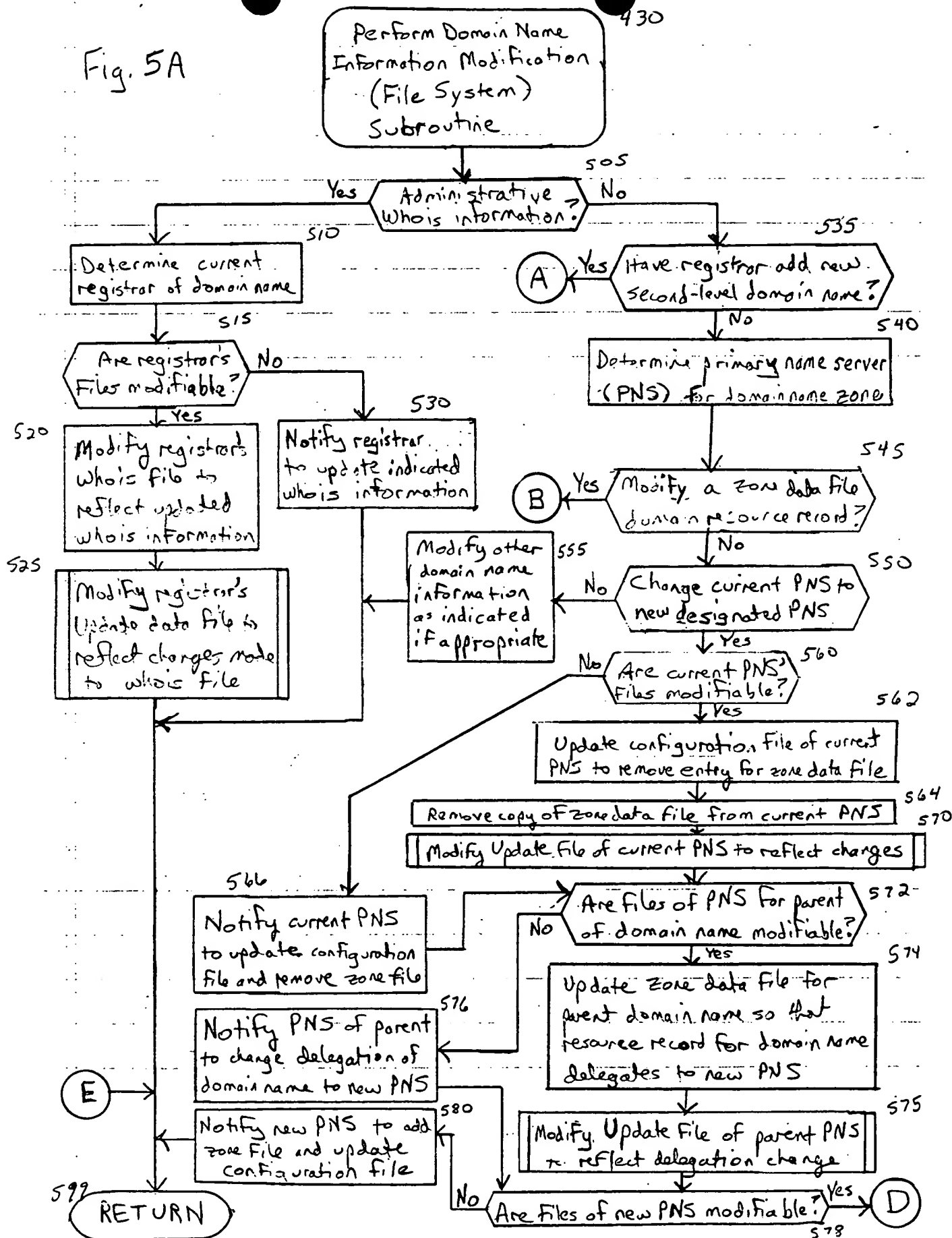


Fig. 5A



00550 044/260

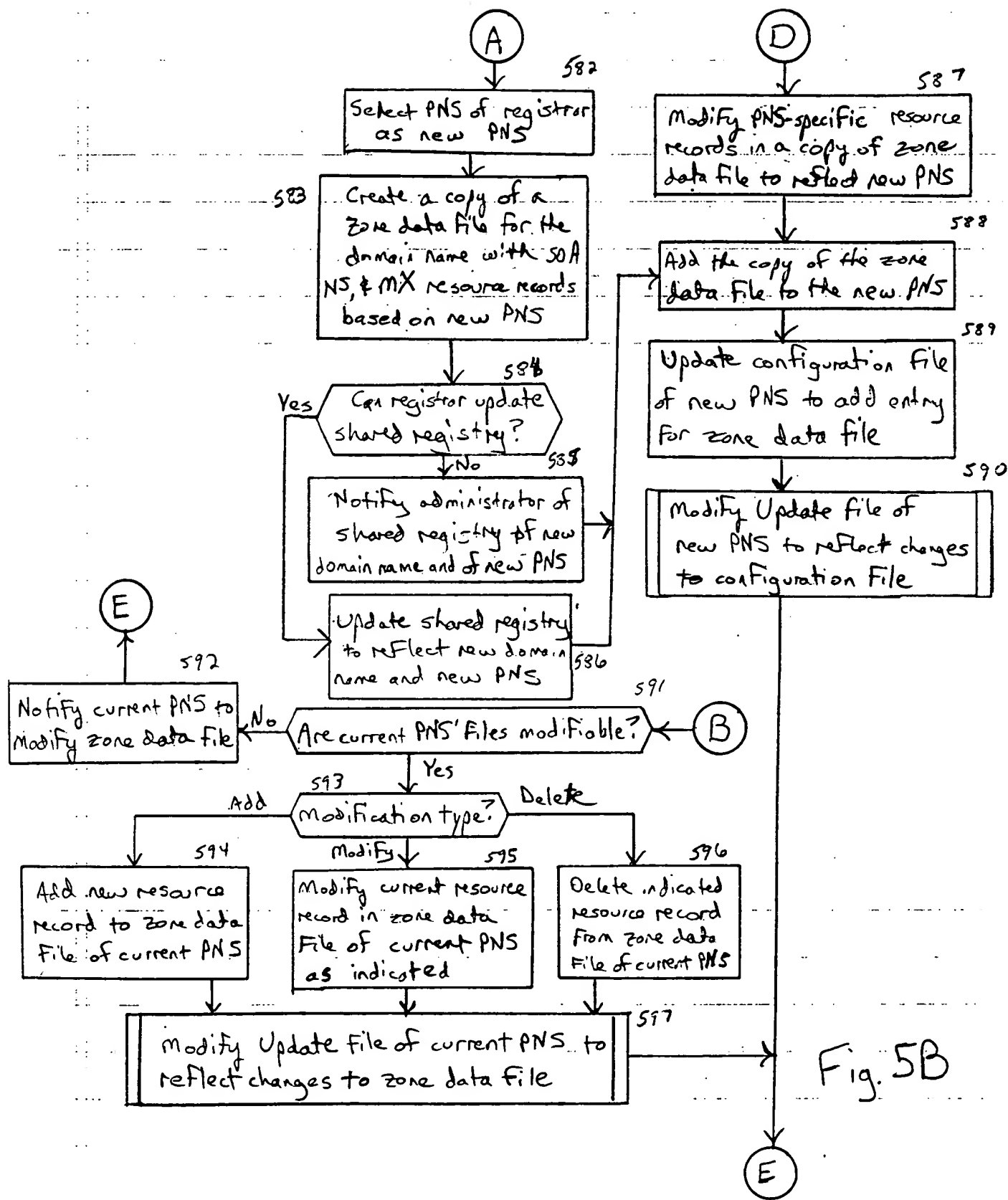


Fig. 5B

Fig. 6

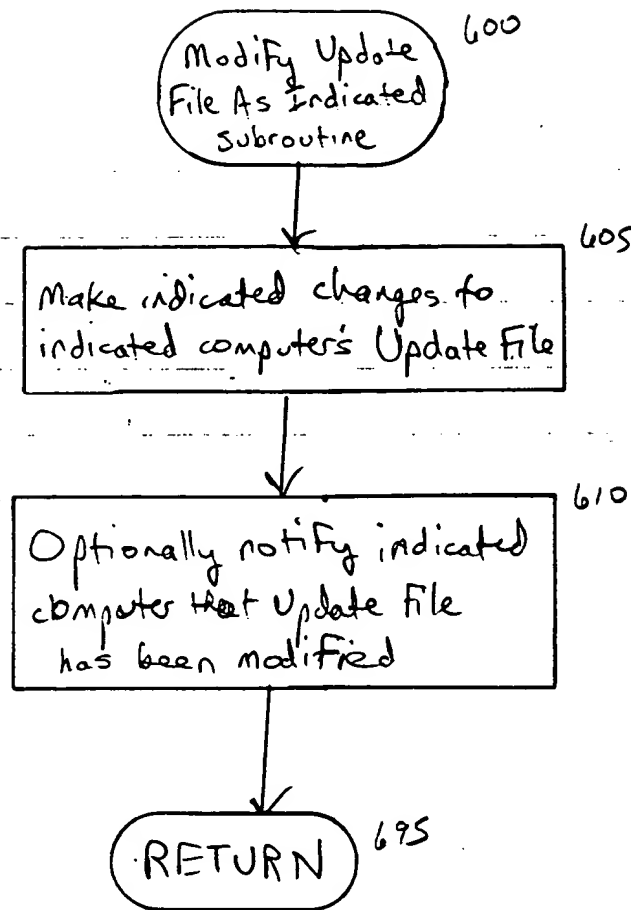
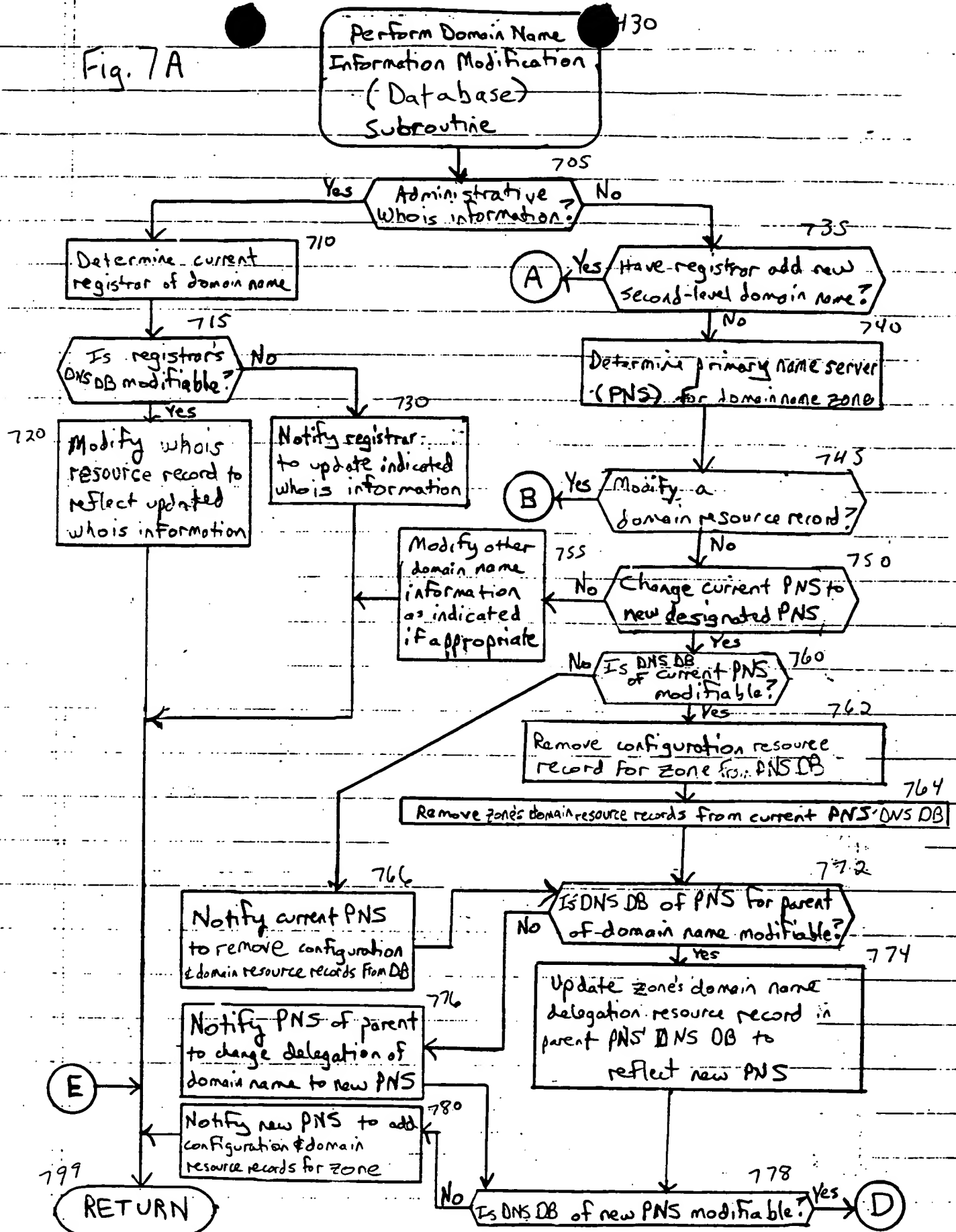


Fig. 7A



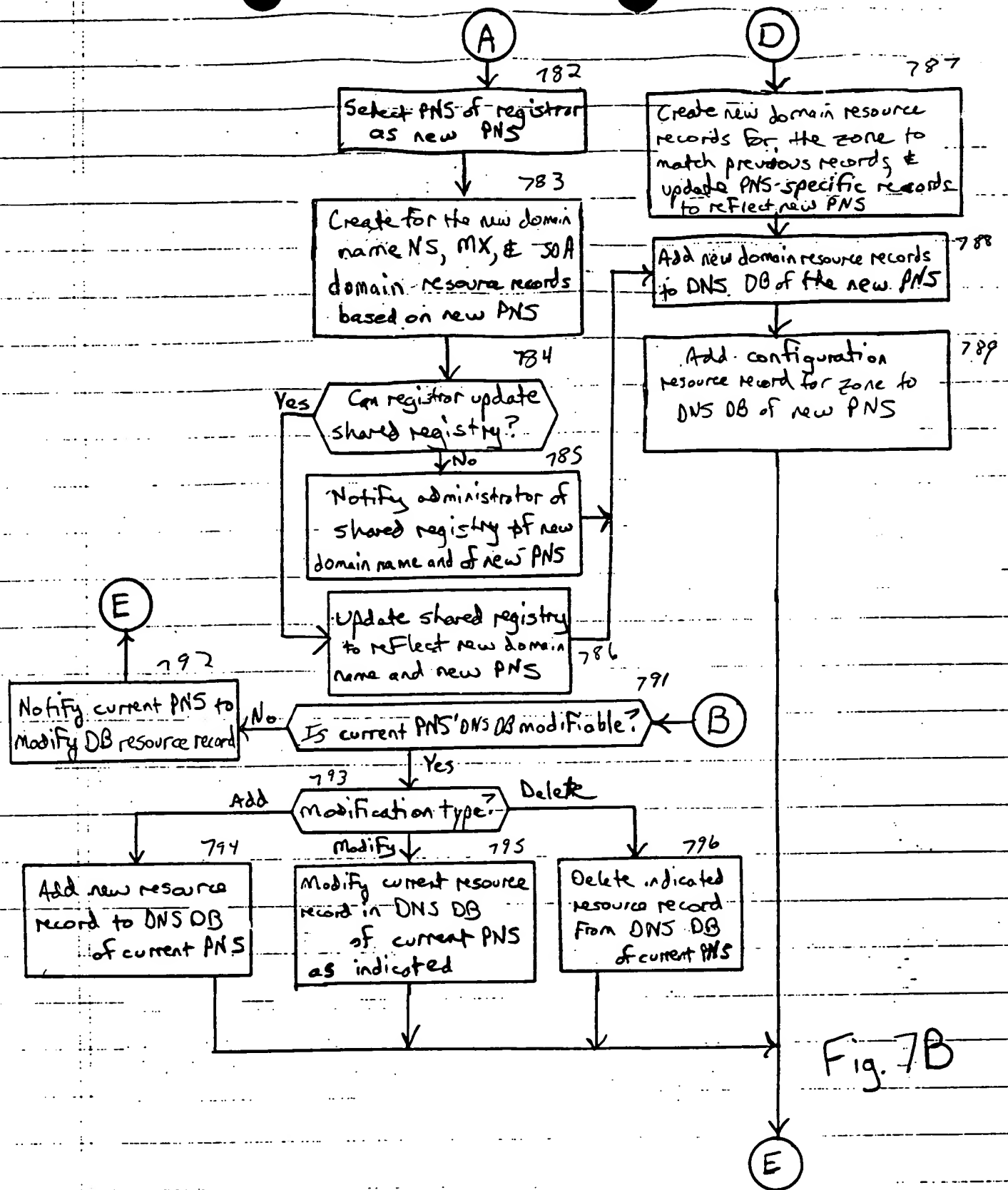


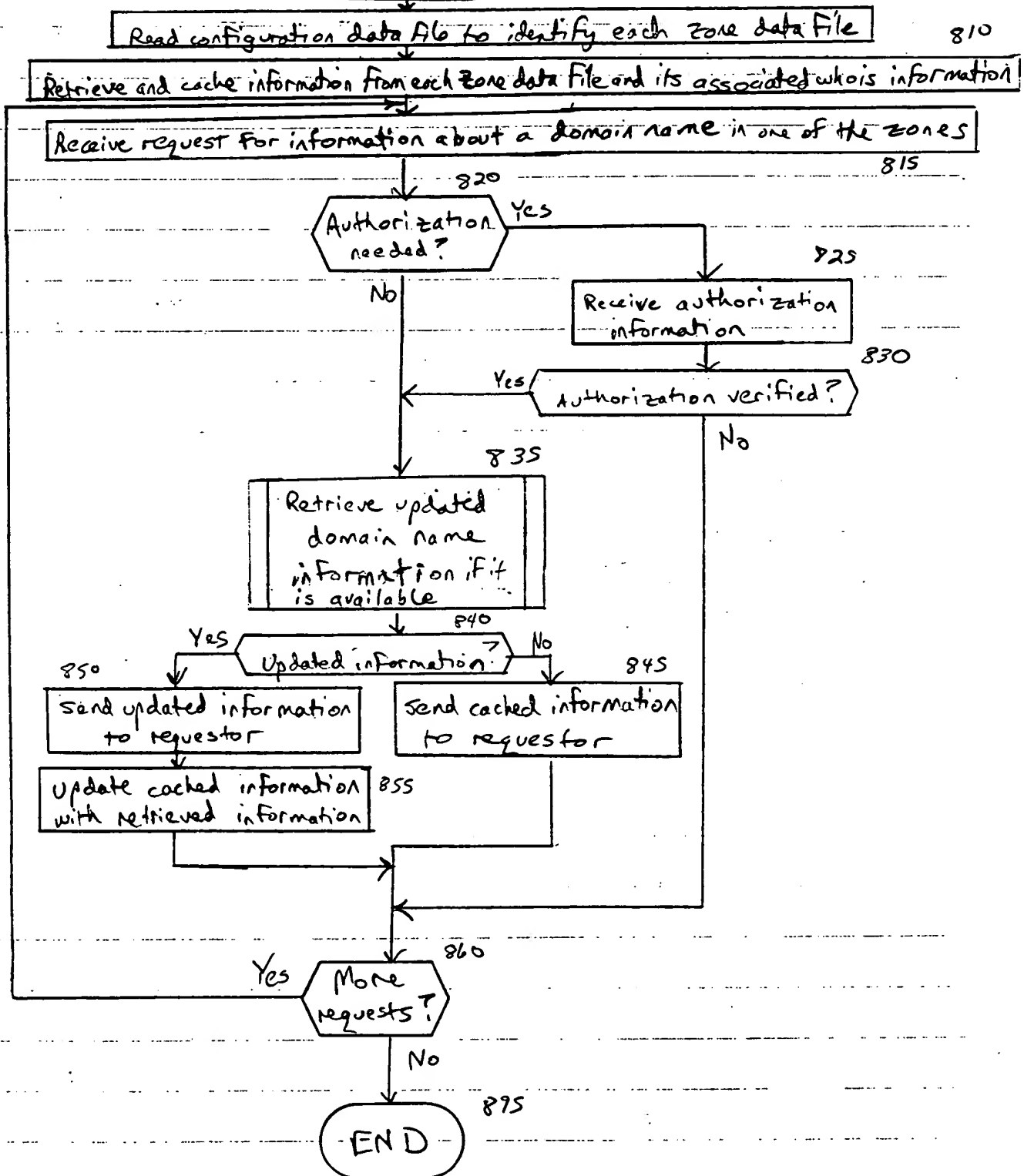
Fig. 7B

Dynamically Provide
DNS Information
(File System)
Routine

800

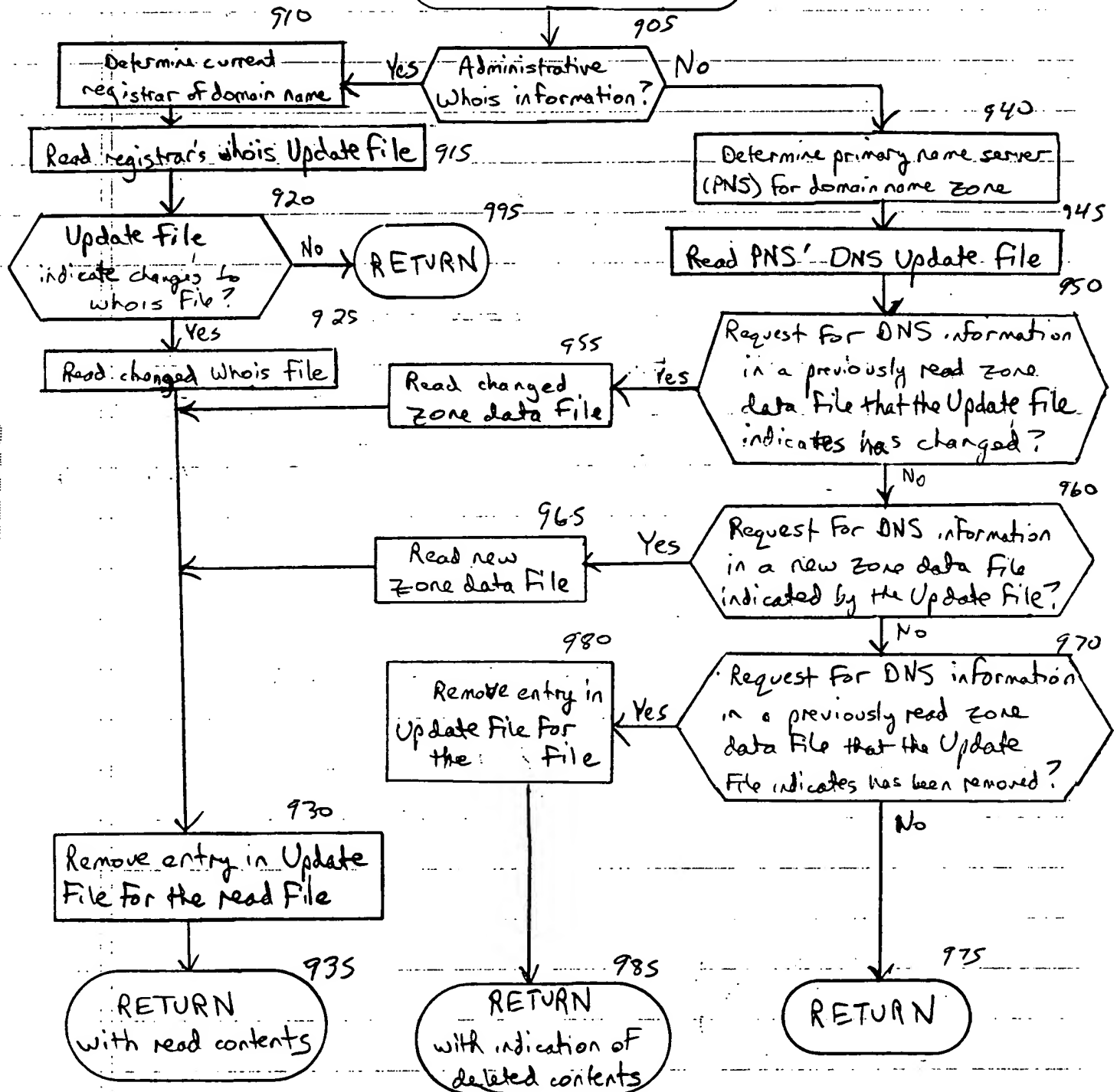
Fig. 8

805



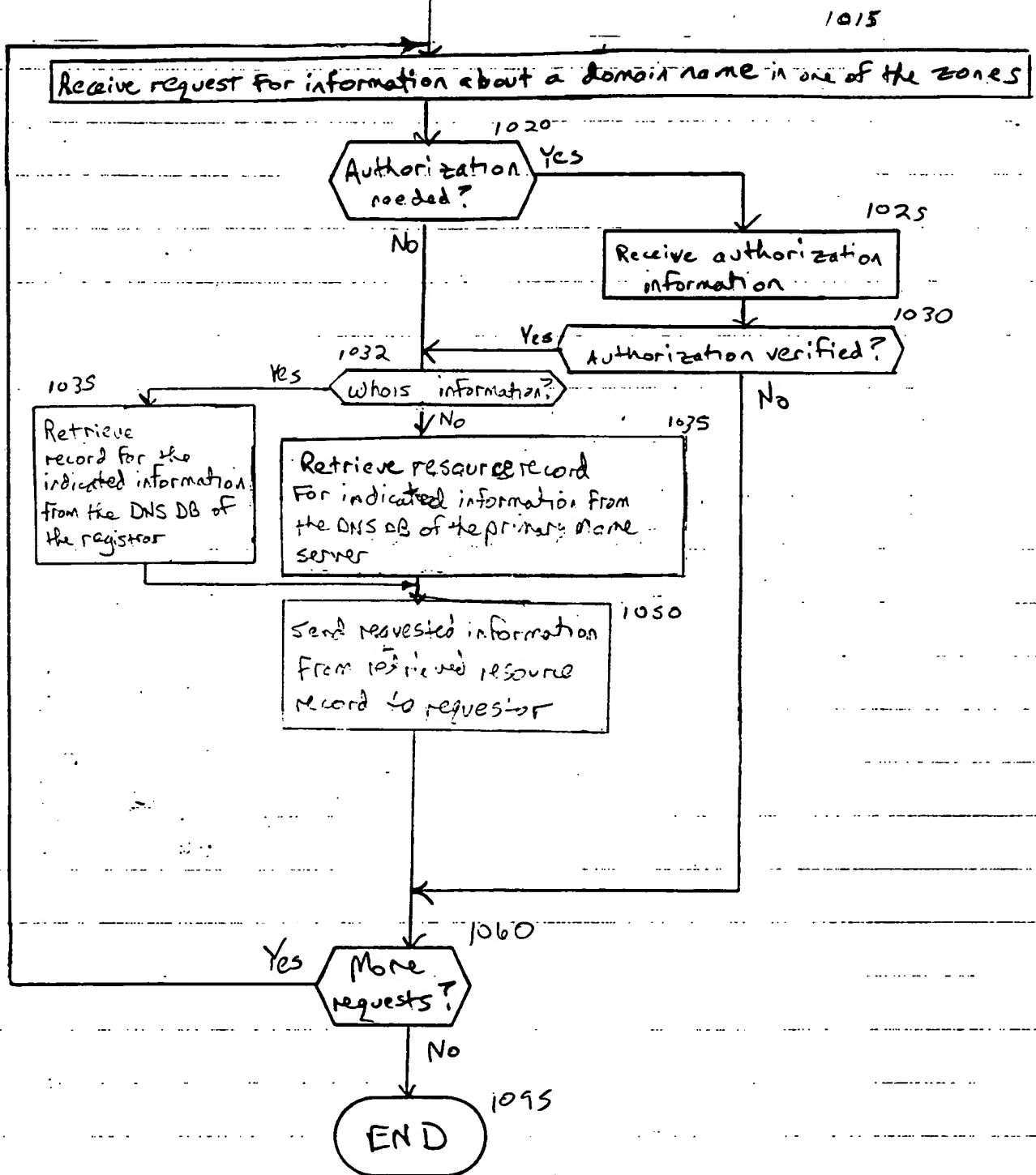
Retrieve Updated
Domain Name Information
If It Is Available
Subroutine

Fig. 9



Dynamically Provide
DNS Information
(Database)
Routine

Fig. 10



Visually Update DNS Information Routine

Fig. 11

